

---

## COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION, OR C-I-P)

---

As a below named inventor, I hereby declare that:

### TYPE OF DECLARATION

This declaration is of the following type: ☒ original.

(check one)

☐ design.

☐ supplemental.

☐ national stage of PCT.

☐ divisional.

☐ continuation.

☐ continuation-in-part (C-I-P)

### INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

**METHOD OF REDUCING SPENT OXIDE NUCLEAR FUEL INTO  
NUCLEAR-FUEL METAL USING LiCl-Li<sub>2</sub>O SALT, CATHODE  
ELECTRODE ASSEMBLY USED IN THE METHOD, AND REDUCTION  
DEVICE INCLUDING THE ASSEMBLY**

### SPECIFICATION IDENTIFICATION

the specification of which:

(a) ☒ is attached hereto.

(b) ☐ was filed on \_\_\_\_\_, as Serial No. \_\_\_\_\_  
and was amended on \_\_\_\_\_ (*if applicable*).

(c) ☐ was described and claimed in PCT International Application No. \_\_\_\_\_, filed  
on \_\_\_\_\_, and as amended under PCT Article 19 on  
\_\_\_\_\_ (*if applicable*).

## ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.

## PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed. Such applications have been filed as follows:

### PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NO.	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
Republic of Korea	2003-19388	28, 03, 2003	YES/NO
			YES/NO
			YES/NO
			YES/NO
			YES/NO

## POWER OF ATTORNEY

I hereby appoint the practitioners practicing at the following Customer Number to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.



34704

PATENT TRADEMARK OFFICE

### SEND CORRESPONDENCE TO:

The above Customer Number.

### DIRECT TELEPHONE CALLS TO:

Gregory P. LaPointe  
(203) 777-6628 - ext. 111

## DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## SIGNATURE(S)

**Full name of sole or first inventor:**

Seo, Chung Seok  
(signature)

Name: SEO, Chung Seok

Date: 2003. 6. 23

Country of Citizenship: Republic of Korea

Residence Address:

#113-507 Hanmaeul Apt., Songgang-dong  
Yuseong-gu, Daejeon 305-503  
Republic of Korea

Post Office Address: (SAME AS ABOVE)

**Full name of third joint inventor, if any:**

Choi, In Kyu  
(signature)

Name: CHOI, In Kyu

Date: 2003. 6. 23

Country of Citizenship: Republic of Korea

Residence Address:

#122-1201 Hanbit Apt., Eoeun-dong  
Yuseong-gu, Daejeon 305-755  
Republic of Korea

Post Office Address: (SAME AS ABOVE)

**Full name of second joint inventor, if any:**

Hur Jin Mok  
(signature)

Name: HUR, Jin Mok

Date: 2003. 6. 23

Country of Citizenship: Republic of Korea

Residence Address:

#9-302 Gongdong Kwanri Apt.  
Doryong-dong, Yuseong-gu, Daejeon  
305-340, Republic of Korea

Post Office Address: (SAME AS ABOVE)

**Full name of forth joint inventor, if any:**

PARK, Seong Won  
(signature)

Name: PARK, Seong Won

Date: 2003. 6. 23

Country of Citizenship: Republic of Korea

Residence Address:

#113-407 Hanmaeul Apt., Songgang-dong  
Yuseong-gu, Daejeon 305-503  
Republic of Korea

Post Office Address: (SAME AS ABOVE)

Full name of fifth joint inventor, if any:

Park, Hyun Soo  
(signature)

Name: PARK, Hyun Soo

Date: June 24, 2003

Country of Citizenship: Republic of Korea

Residence Address:

#305-1504 Expo Apt., Jeonmin-dong

Yuseong-gu, Daejeon 305-761

Republic of Korea

Post Office Address: (SAME AS ABOVE)

**THIS DECLARATION ENDS WITH THIS PAGE.**

## DECLARATION

I (We)

**SEO, Chung Seok; HUR, Jin Mok; CHOI, In Kyu; PARK, Seong Won; PARK, Hyun Soo**

citizens of **Republic of Korea**

residing at Daejeon, Republic of Korea

declare:

That I (we) made and conceived the invention described and claimed in U.S. Patent Application Serial No. \_\_\_\_\_ filed on \_\_\_\_\_ entitled **METHOD OF REDUCING SPENT OXIDE NUCLEAR FUEL INTO NUCLEAR-FUEL METAL USING LiCl-Li<sub>2</sub>O SALT, CATHODE ELECTRODE ASSEMBLY USED IN THE METHOD, AND REDUCTION DEVICE INCLUDING THE ASSEMBLY.**

That I(we) made and conceived this invention while employed by **KOREA ATOMIC ENERGY RESEARCH INSTITUTE; KOREA HYDRO & NUCLEAR POWER CO., LTD.** That the invention is related to the work I am(we are) employed to perform and was made within the scope of my(our) employment duties; that the invention was made during working hours and with the use of facilities, equipment, materials, funds, information and services of **KOREA ATOMIC ENERGY RESEARCH INSTITUTE; KOREA HYDRO & NUCLEAR POWER CO., LTD.** Other relevant facts are \_\_\_\_\_. That to the best of my(our) knowledge and belief (and/or) based upon information provided by

\_\_\_\_\_ of \_\_\_\_\_:

*(Check 1. or 2. below as appropriate)*

- ① The invention was not made or conceived in the course of, or in connection with, or under the terms of any contract, subcontract or arrangement entered into with or for the benefit of the United States Atomic Energy Commission or its successors: Energy Research and Development Administration or the Department of Energy.

--AND/OR--

2. The invention was not made (conceived or first actually reduced to practice) under nor is there any relationship of the invention to the performance of any work under any contract of the National Aeronautics and Space Administration.

The undersigned inventor(s) declare further that all statements made herein of his or her(their) own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 2003. 6. 23

Seo, Chung Seok  
Inventor's Signature: SEO, Chung Seok

#113-507 Hanmaeul Apt., Songgang-dong  
Yuseong-gu, Daejeon 305-503, Republic of Korea  
Post Office Address

Date: 2003. 6. 23

Hur Jin Mok  
Inventor's Signature: HUR, Jin Mok

#9-302 Gongdong Kwanri Apt., Doryong-dong  
Yuseong-gu, Daejeon 305-340, Republic of Korea  
Post Office Address

Date: 2003. 6. 23

Choi, In Kyu  
Inventor's Signature: CHOI, In Kyu

#122-1201 Hanbit Apt., Eoeun-dong, Yuseong-gu  
Daejeon 305-755, Republic of Korea  
Post Office Address

Date: 2003. 6. 23

PARK, Seong Won  
Inventor's Signature: PARK, Seong Won

#113-407 Hanmaeul Apt., Songgang-dong  
Yuseong-gu, Daejeon 305-503, Republic of Korea  
Post Office Address

Date: June 28, 2003

Park, Hyun Soo  
Inventor's Signature: PARK, Hyun Soo

#305-1504 Expo Apt., Jeonmin-dong, Yuseong-gu  
Daejeon 305-761, Republic of Korea  
Post Office Address